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TO: Dr. Attallah Kappas

FROM: Joshua Lederberg

SUBJECT: Intracellular Hb → bilirubin

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Have I written to you on this before?

Rich's observations raise some interesting questions.

1. How is free Hb in plasma disposed of?
2. What will happen to phagocytes, having ingested RBC, whose haem oxygenase is inhibited with Sn-porphyrin? Will further phagocytic function be disturbed?
3. Opportunity for targetted dosage: put the Sn-heme in liposomes that are specifically taken up by phagocytes. Should reduce required dosage.
4. Do prematures have intact phagocytic function?
5. Opportunity to calibrate drug dosage on human compared to animal cells in vitro.
6. Inducibility of haem oxygenase in vitro.
7. Is P-450 expressed in these cells?